

rCAT v0.1 Relational Character Analysis Tool

1/Applications/Source_Tree/web - rcat/flask_app/data_user/36bf6974 - 1bdd - 11e8 - af65 -

/Users/Florian 1/Applications/Source_Tree/web-rcat/flask_app/data_user/36bf6974 - 1bdd - 11e8 - af65 -

600308993272temp_folder/network.pdf

Figure 1: Network

1 Data Input

Statistics

- timestamp: 2018-02-27 17:44:29
- analyzed text: "1__1_Mann_Zauberberg.txt"
- length of text: 313533 tokens
- number of characters (with at least one degree): 17

Input parameters

- distance measure: 10
- context measure 1 (words before Character 1): 8
- context measure 2 (words after Character 2): 8

2 Network Parameters

Here you can get information about the network parameters.

Definitions

- Average degree: The degree of a node is the number of edges connected to it. It measures the number of connections to other characters. Average degree is calculated on a probability of two nodes being connected.
- SD degree: Standard deviation of all degrees.
- Density: Graph density is the ratio of the number of edges to the number of possible edges.
- Weighted degree: Sum of weights of incident edges. Measures the number of interactions of a character.

Current network parameters

- average degree: 6.235294117647059
- sd degree: 3.011009211309098
- density: 0.3897058823529412

Degrees

Character (Node)	degree	weighted degree
Hans Castorp	14	455
Settembrini	10	233
Naphta	5	125
Madame Chauchat	6	80
Peeperkorn	5	53
Ziemßen	4	33
Behrens	5	40
Krokowski	4	41
Stöhr	10	37
Myllendonk	3	7
Pribislav Hippe	2	14
Albin	6	16
Kleefeld	8	31
Levi	7	20
Salomon	5	6
Wehsal	8	59
Wenzel	4	4

Weights for Edges

Character Pair (Edge)	Weight
Hans Castorp -- Settembrini	149
Hans Castorp -- Naphta	44
Hans Castorp -- Madame Chauchat	67
Hans Castorp -- Peeperkorn	42
Hans Castorp -- Ziemßen	28
Hans Castorp -- Behrens	26
Hans Castorp -- Krokowski	30
Hans Castorp -- Stöhr	8
Hans Castorp -- Mylendonk	4
Hans Castorp -- Pribislav Hippe	12
Hans Castorp -- Kleefeld	10
Hans Castorp -- Levi	2
Hans Castorp -- Salomon	2
Hans Castorp -- Wehsal	31
Settembrini -- Naphta	65
Settembrini -- Peeperkorn	1
Settembrini -- Ziemßen	1
Settembrini -- Behrens	3
Settembrini -- Krokowski	3
Settembrini -- Stöhr	1
Settembrini -- Mylendonk	1
Settembrini -- Wehsal	8
Settembrini -- Wenzel	1
Naphta -- Madame Chauchat	1
Naphta -- Peeperkorn	4
Naphta -- Wehsal	11
Madame Chauchat -- Peeperkorn	5
Madame Chauchat -- Mylendonk	2
Madame Chauchat -- Pribislav Hippe	2
Madame Chauchat -- Kleefeld	3
Peeperkorn -- Wehsal	1
Ziemßen -- Behrens	3
Ziemßen -- Stöhr	1
Behrens -- Krokowski	7
Behrens -- Stöhr	1
Krokowski -- Kleefeld	1
Stöhr -- Albin	6
Stöhr -- Kleefeld	7
Stöhr -- Levi	9
Stöhr -- Salomon	1
Stöhr -- Wehsal	2
Stöhr -- Wenzel	1
Albin -- Kleefeld	4
Albin -- Levi	2
Albin -- Salomon	1
Albin -- Wehsal	2
Albin -- Wenzel	1
Kleefeld -- Levi	3
Kleefeld -- Salomon	1
Kleefeld -- Wehsal	2
Levi -- Salomon	1
Levi -- Wehsal	2
Levi -- Wenzel	1

3 Word Cloud for single characters (method: most frequent contexts words)

These word clouds were constructed based on most frequent words. They show the most frequent words that appear around character mention.

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6003089932724temp_folder/wordcloud_for_single_character0.png



Figure 2: word cloud of "Hans Castorp"

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6003089932724temp_folder/wordcloud_for_single_character1.png



Figure 3: word cloud of "Settembrini"

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6003089932724temp_folder/wordcloud_for_single_character2.png



Figure 4: word cloud of "Naphta"

4 Word Cloud for character pairs (method: most frequent contexts words)

These word clouds were constructed based on most frequent words. They show the most frequent words that appear in the context of the character pair.

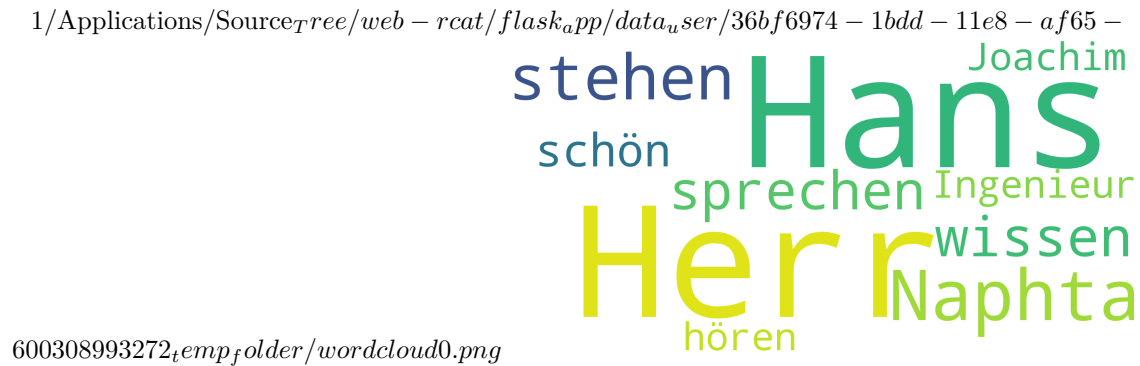


Figure 5: word cloud of "Hans Castorp -- Settembrini"

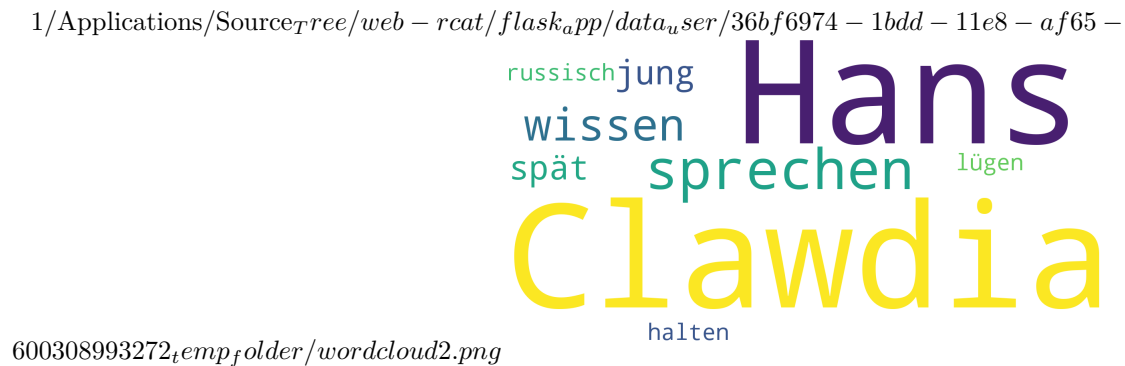


Figure 6: word cloud of "Hans Castorp -- Madame Chauchat"

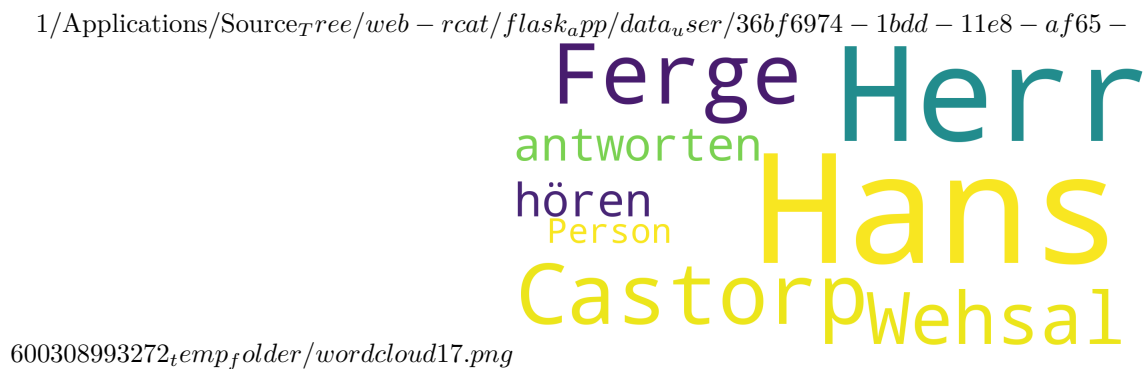


Figure 7: word cloud of "Settembrini -- Naphta"

rCat, v.0.1

This program is developed by Florian Barth and Evgeny Kim with the help of Roman Klinger and Sandra Murr. It is part of the Center for Reflected Text Analytics (CRETA) at the University of Stuttgart.

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